

**WHAT IS CLAIMED IS:**

1. A chrome-free passivating solution, characterized in that each liter of said chrome-free passivating solution comprises the following components:

	Salts containing free element	20~35g
5	Complexing agent	18~38g
	Oxidation reducer	0.05~0.15g
	Water	rest amount

2. The chrome-free passivating solution as claimed in claim 1, characterized in that said salt containing free element is a mixture of two kinds of salts containing free element, and the weight ratio between said two kinds of salts is in the range of 35~45:1.

3. The chrome-free passivating solution as claimed in claim 1, characterized in that said salt containing free element is a mixture of one salt containing free element and other inorganic salt with chrome-free, and the weight ratio between said two kinds of salts is in the range of 35~45:1.

4. The chrome-free passivating solution as claimed in claim 1, 2 or 3, characterized in that said complexing agent is a mixture of three organic acids, and the weight ratio between three organic acids is 6:5:1.

5. The chrome-free passivating solution as claimed in claim 1, 2, or 3, characterized in that said complexing agent is a mixture of two organic acids and peroxide, and the weight ratio between two organic acids and peroxide is 6:5:1.

6. The chrome-free passivating solution as claimed in claim 4, characterized in that said oxidation reducer is two inorganic acids, and the weight ratio between two inorganic acids is in the range of 7~10:1.

7. The chrome-free passivating solution as claimed in claim 5,  
characterized in that said oxidation reducer is two inorganic acids, and the  
weight ratio between two inorganic acids is in the range of 7~10:1.

8. The chrome-free passivating solution as claimed in claim 1,  
5 characterized in that said salt containing free element is composed of titanium,  
manganese, and molybdenum.

9. The chrome-free passivating solution as claimed in claim 4,  
characterized in that said organic acids are citric acid, tartaric acid,  
pyrophosphate acid, nitrilotriacetic acid, or compound containing 8~28 oxygen  
10 atom, 4~16 hydroxy and 2~8 phosphoric acid.

10. The chrome-free passivating solution as claimed in claim 6,  
characterized in that inorganic acids are sulfuric acid, hydrochloric acid or nitric  
acid.